

# SPYWOLF

**Security Audit Report** 



Audit prepared for

**Blastex** 

Completed on

March 19, 2024

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### **KEY RESULTS**

Cannot mint new tokens	Passed
Cannot pause trading (honeypot)	*
Cannot blacklist an address	Passed
Cannot raise taxes over 25%?	Passed
No proxy contract detected	Passed
Not required to enable trading	*
No hidden ownership	Passed
Cannot change the router	Passed
No cooldown feature found	Passed
Bot protection delay is lower than 5 blocks	Passed
Cannot set max tx amount below 0.05% of total supply	Passed
The contract cannot be self-destructed by owner	Passed

For a more detailed and thorough examination of the heightened risks, refer to the subsequent parts of the report.

N/A = Not applicable for this type of contract

\*Only new deposits/reinvestments can be paused





# OVERVIEW

This goal of this report is to review the main aspects of the project to help investors make an informative decision during their research process.

You will find a a summarized review of the following key points:

- ✓ Contract's source code
- ✓ Owners' wallets
- ✓ Tokenomics
- ✓ Team transparency and goals
- ✓ Website's age, code, security and UX
- ✓ Whitepaper and roadmap
- ✓ Social media & online presence

The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal

- SPYWOLF Team -







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# Blastex



### **PROJECT DESCRIPTION**

### According to their website:

There was no official description about the project during the testing phase.

Release Date: Launching in March, 2024

Category: Staking



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### CONTRACT INFO

Token Name

N/A

Symbol

N/A

**Contract Address** 

0xdC0C0746CA0954E6C2284D1a97cC85474B051EbB

Network

Blast

Solidity

Language

Deployment Date

March 15, 2024

**Contract Type** 

Staking

**Total Supply** 

N/A

Status

Launched

### **TAXES**

Buy Tax **10%**  Sell Tax n/a



# Our Contract Review Process

The contract review process pays special attention to the following:

- Testing the smart contracts against both common and uncommon vulnerabilities
- Assessing the codebase to ensure compliance with current best practices and industry standards.
- Ensuring contract logic meets the specifications and intentions of the client.
- Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- Thorough line-by-line manual review of the entire codebase by industry experts.

#### **Blockchain security tools used:**

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat



### **TOKEN TRANSFERS STATS**

Transfer Count	N/A
Uniq Senders	N/A
Uniq Receivers	N/A
Total Amount	N/A
Median Transfer Amount	N/A
Average Transfer Amount	N/A
First transfer date	N/A
Last transfer date	N/A
Days token transferred	N/A

### **SMART CONTRACT STATS**

Calls Count	N/A
External calls	N/A
Internal calls	N/A
Transactions count	N/A
Uniq Callers	N/A
Days contract called	N/A
Last transaction time	Mar-18-2024 05:33:47 PM +UTC
Created	Mar-15-2024 03:58:01 PM +UTC
Create TX	0x99b5ddf500c790a0f2610fff1f7372cddef6a d684ac4d1c8071f27cb138a73e1
Creator	0x6d9725ffec14648300bc7bc6c9c0dd5ea63 1b39e

03

### T



### **VULNERABILITY ANALYSIS**

ID	Title	
SWC-100	Function Default Visibility	Passed
SWC-101	Integer Overflow and Underflow	Passed
SWC-102	Outdated Compiler Version	Passed
SWC-103	Floating Pragma	Passed
SWC-104	Unchecked Call Return Value	Passed
SWC-105	Unprotected Ether Withdrawal	Passed
SWC-106	Unprotected SELFDESTRUCT Instruction	Passed
SWC-107	Reentrancy	Passed
SWC-108	State Variable Default Visibility	Passed
SWC-109	Uninitialized Storage Pointer	Passed
SWC-110	Assert Violation	Passed
SWC-111	Use of Deprecated Solidity Functions	Passed
SWC-112	Delegatecall to Untrusted Callee	Passed
SWC-113	DoS with Failed Call	Passed
SWC-114	Transaction Order Dependence	Passed
SWC-115	Authorization through tx.origin	Passed
SWC-116	Block values as a proxy for time	Passed
SWC-117	Signature Malleability Pc	
SWC-118	Incorrect Constructor Name	Passed

04-A



### **VULNERABILITY ANALYSIS**

ID	Title	
SWC-119	Shadowing State Variables	Passed
SWC-120	Weak Sources of Randomness from Chain Attributes	Passed
SWC-121	Missing Protection against Signature Replay Attacks	Passed
SWC-122	Lack of Proper Signature Verification	Passed
SWC-123	Requirement Violation	Passed
SWC-124	Write to Arbitrary Storage Location	Passed
SWC-125	Incorrect Inheritance Order	Passed
SWC-126	Insufficient Gas Griefing Po	
SWC-127	Arbitrary Jump with Function Type Variable	
SWC-128	DoS With Block Gas Limit	
SWC-129	Typographical Error Pass	
SWC-130	Right-To-Left-Override control character (U+202E)  Passe	
SWC-131	Presence of unused variables Pas	
SWC-132	Unexpected Ether balance	
SWC-133	Hash Collisions With Multiple Variable Length Arguments	
SWC-134	Message call with hardcoded gas amount	
SWC-135	Code With No Effects	
SWC-136	Unencrypted Private Data On-Chain	Passed







# VULNERABILITY ANALYSIS NO ERRORS FOUND



# MANUAL CODE REVIEW

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time.

We categorize these vulnerabilities by 4 different threat levels.

### THREAT LEVELS

### High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

### **Medium Risk**

Issues on this level are critical to the smart contract's performance, functionality and should be fixed before moving to a live environment.

### **Low Risk**

Issues on this level are minor details and warning that can remain unfixed.

### Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.

05



### Medium Risk

Administrators can create new bond for user, up to contract's current token balances.

```
address userAddr, uint256 tokensAmount,
address upline) external onlyModerator {
  require(!userAddr.isContract(), "X");
require(userAddr != upline, "M03");
require(userS[userAddr].bondsNumber < Constants.BONDS_LIMIT, "01");
 require(IERC20(address(token)).balanceOf(address(this)) >= tokensAmount,
"Insufficient token balance");
  if (users[userAddr].lastActionTime == 0) {
  users[userAddr].lastActionTime = block.timestamp;
   emit Events.NewUser(
emit Events.NewBond(
```

- Recommendation:
  - No bonds should be issued for free

### Informational

Owner can pause only new buys.

```
function pause() external onlyOwner {
    _pause();
}
```

Owner can activate/deactivate bonds 0 to 3.

```
bool[5] public BOND_ACTIVATIONS = [
    true,
    false,
    false,
    false
];

function activateBondType(uint8 bondType) external onlyOwner {
    require(bondType > 0 && bondType < 4, "U1");
    BOND_ACTIVATIONS[bondType] = true;
}

function deactivateBondType(uint8 bondType) external onlyOwner {
    require(bondType > 0 && bondType < 4, "U1");
    BOND_ACTIVATIONS[bondType] = false;
}</pre>
```





### Informational

Moderator can change tokens claim rate settings.

```
function newPeriod(
   uint256 distributionPercent,
   uint256 contributionDecreasePercent
 ) external onlyModerator {
        (distributionPercent >= 50 && distributionPercent <= 500)
     || (periodsNumber > 0 && distributionPercent == 0),
   );
        (contributionDecreasePercent = 100 && contributionDecreasePercent = 2000)
     || (periodsNumber > 0 && contributionDecreasePercent == 0),
   );
    periodsNumber == 0 || lastPeriodIsClosed(),
     "M02"
   );
   if (periodsNumber > 0 && periods[periodsNumber - 1].tvl == 0) {
     (periods[periodsNumber - 1].tvl, ) = getTokenLiquidity();
   periods[periodsNumber] = Models.Period({
     tvl: 0,
     distributionPercent: distributionPercent > 0
       ? distributionPercent
       : periods[periodsNumber - 1].distributionPercent,
     contributionDecreasePercent: contributionDecreasePercent > 0
       ? contributionDecreasePercent
       : periods[periodsNumber - 1].contributionDecreasePercent,
     startTime: block.timestamp
   });
   periodsNumber++;
```



### Informational

Users can rebond their bonds on behalf of another user.

```
function rebond(uint256 tokensAmount, address receiver) external notContract {
   require(!receiver.isContract(), "20");
   if (receiver == address(0x0)) {
     receiver = msg.sender;
   require(users[receiver].lastActionTime > 0, "21");
   require(users[receiver].bondsNumber < Constants.BONDS_LIMIT, "22");</pre>
   require(tokensAmount >= Constants.MIN_BOND_TOKENS, "23");
   require(userBalance(msg.sender) >= tokensAmount, "24");
   collect(msg.sender);
   Models.User storage user = users[msg.sender];
   require(user.balance >= tokensAmount, "24");
   user.balance-= tokensAmount:
   uint256 ethAmount = getETHAmount(tokensAmount);
   uint8 bondIdx = newBond(receiver, 0, ethAmount, 0);
   emit Events.ReBond(
    receiver, bondIdx, ethAmount, tokensAmount, block.timestamp
   );
```



### Informational

Owner can withdraw any tokens from the contract except the native BLASTEX token and LP token.

```
function retrieveERC20(address tokenAddress, uint256 amount) external onlyOwner {
    require(
        tokenAddress != address(token) && tokenAddress != address(flip)
    );

if (amount == 0) {
        amount = IERC20(tokenAddress).balanceOf(address(this));
    }

IERC20(tokenAddress).transfer(owner(), amount);
}
```

05-E

### **F**

### CONTRACT INFO

Token Name

Blastex token

Symbol

**BLASTX** 

**Contract Address** 

0x800ce05BaDE6B87E1552d0301Ea3393ccFf42F4A

Network

Blast

Language

Solidity

Deployment Date March 15, 2024

Contract Type
Mintable token

**Total Supply** 

1,000,801

Status

Launched

### **TAXES**

Buy Tax **n/a**  Sell Tax n/a



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- Mythril
- Solidity Compiler
- Hardhat



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### **SMART CONTRACT STATS**

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External calls	N/A
Internal calls	N/A
Transactions count	N/A
Uniq Callers	N/A
Days contract called	N/A
Last transaction time	Mar-15-2024 03:58:45 PM +UTC
Created	Mar-15-2024 03:52:39 PM +UTC
Create TX	0x2c97d5a82f898a9f23b26a2869942eb495 dadb88e5334b2ec630eeec1c605205
Creator	0x6d9725ffec14648300bc7bc6c9c0dd5ea63 1b39e



### High Risk

No high risk-level threats found in this contract.

### Medium Risk

No medium risk-level threats found in this contract.

### Low Risk

No low risk-level threats found in this contract.

08-A

### Informational

This token can be purchased only via the blasteX's staking contract. Owner can pause new buys.

```
bool public buyLocked = true;
function lockBuy() external onlyOwner {
    buyLocked = true;
}

function _beforeTokenTransfer(address from, address to, uint256 ) internal view override {
    if (address(flip) == address(0) || !buyLocked) {
        return;
}

if (from == address(flip) || from == address(uniswapV2Router)) {
    require(
        to == mainContractAddress
        || to == address(uniswapV2Router)
        || to == address(flip)
        || to == address(0),
        "Transfer: only main contract can buy tokens"
);
}
```

08-B



### Informational

New tokens can be minted only via the main (staking) contract.

```
function mint(address to, uint256 amount) public {
    require(msg.sender == mainContractAddress,
        "Mint: only main contract can mint tokens");
    _mint(to, amount);
}
```

Owner can set main (staking) contract once.

Main contract is set at address:

0xdC0C0746CA0954E6C2284D1a97cC85474B051EbB

```
function setMainContractAddress(address contractAddress) external onlyOwner {
    require(mainContractAddress == address(0), "Main contract address already configured");
    mainContractAddress = contractAddress;
}
```

08-C



There is no information about the initial tokens distribution associated with the staking contract based on the project's whitepaper and/or website.

SPYWOLF.CO





#### **Website URL**

https://blastex.xyz

### **Domain Registry** https://namecheap.com

### **Domain Expiration**

2025-01-04

#### **Technical SEO Test**

Passed

#### **Security Test**

Passed. SSL certificate present

#### Design

Very nice design with appropriate color scheme and graphics.

#### Content

The information helps new investors understand what the product does right away. No grammar mistakes found.

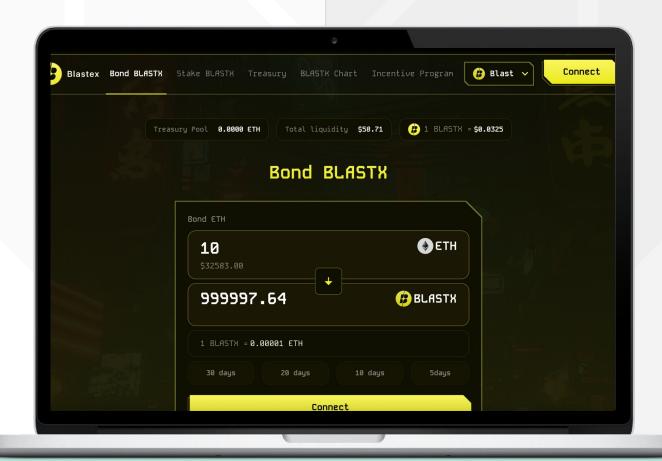
### Whitepaper

### Roadmap

No

### Mobile-friendly?

Yes



### blastex.xyz

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# SPYWOLF CRYPTO SECURITY

Audits | KYCs | dApps Contract Development

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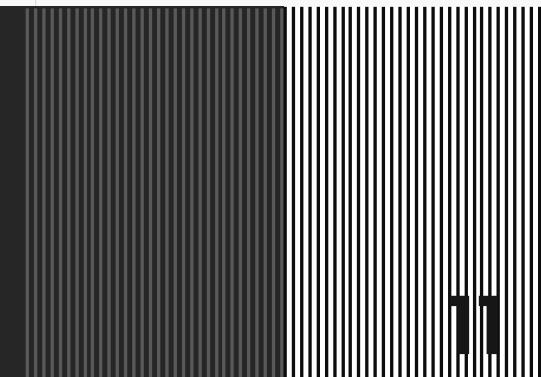
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### Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.



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